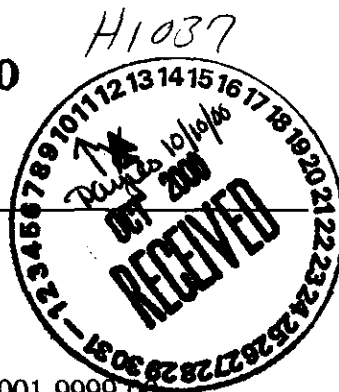




0054090

Chemical and Environmental Measurement Information

Recra LabNet Philadelphia
Analytical Report

Client: TNU HANFORD B00-054

RFW #: 0009L621

SDG/SAF#: H1037/B00-054

W.O. #: 10985-001-001-9999-00

Date Received: 10-10-00

RECEIVED
DEC 05 2000

GC SCAN

EDMC

Three (3) soil samples were collected on 09-11-00.

The samples and their associated QC samples were prepared on 09-25-00 and analyzed by methodology based on EPA Method 8015B for Methanol on 09-25-00.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analyses:

1. The samples were packaged and stored as specified in the method protocol; the cooler temperature upon receipt has been recorded on the chain-of-custody.
2. The sample preparation and analysis holding times were met.
3. All initial calibrations associated with this data set were within acceptance criteria.
4. All continuing calibration standards analyzed prior to the sample extracts were within acceptance criteria.
5. Recra does not use surrogate spikes for this analysis. The method does not provide specific guidance regarding the use of surrogates and performance criteria. Method performance is monitored through the use of blank spikes and matrix spikes.
6. The blank spike recovery was within the advisory control limits of 50%-150%.
7. The matrix spike recoveries were within the advisory control limits of 50%-150%.
8. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. The laboratory Manager or a designee, as verified by the following signature, has authorized release of the data contained in this hard-copy data package.

By
J. Michael Taylor

Vice President

Philadelphia Analytical Laboratory

r:\group\hplc-gcse\harr\gcvoa-scan\2000\09-621a1.doc

10-10-00

Date

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 7 pages.

001

GLOSSARY OF OGCSC DATA

DATA QUALIFIERS

- U = Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).
- J = Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.
- E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- I = Interference.

ABBREVIATIONS

- BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.
- BSD = Indicates blank spike duplicate.
- MS = Indicates matrix spike.
- MSD = Indicates matrix spike duplicate.
- DL = Indicates that recoveries were not obtained because the extract had to be diluted for analysis.
- NA = Not Applicable.
- DF = Dilution Factor.
- NR = Not Required.
- SP = Indicates spiked compound.

Recra LabNet - Lionville Laboratory

GC SCAN

Report Date: 10/09/00 13:34

RFW Batch Number: 0009L621

Client: TNU-HANFORD B00-054

Work Order: 10985-001-001-9999-00

Page 1

	Cust ID:	B10496	B10496	B10496	B10498	B10499	BLK
Sample	RFW#:	001	001 MS	001 MSD	003	004	00LLC178-MB1
Information	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg

	fl	fl	fl	fl	fl	fl	fl
Methanol	5.0 U	109 %	103 %	5.0 U	5.0 U	5.0 U	5.0 U

	Cust ID:	BLK BS
Sample	RFW#:	00LLC178-MB1
Information	Matrix:	SOIL
	D.F.:	1.00
	Units:	mg/kg

	fl	fl	fl	fl	fl	fl	fl
Methanol	101 %						

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of Advisory limits.

10/10/00

Recra LabNet - Lionville Laboratory
GCSC ANALYTICAL DATA PACKAGE FOR
TNU-HANFORD B00-054

RFW LOT # :0009L621

CLIENT ID	RFW #	MTX	PREP #	COLLECTN	DATE	REC	EXT/PREP	ANALYSIS
B10496	001	S	00LLC178	09/11/00	09/15/00	09/25/00	09/25/00	
B10496	001 MS	S	00LLC178	09/11/00	09/15/00	09/25/00	09/25/00	
B10496	001 MSD	S	00LLC178	09/11/00	09/15/00	09/25/00	09/25/00	
B10498	003	S	00LLC178	09/11/00	09/15/00	09/25/00	09/25/00	
B10499	004	S	00LLC178	09/11/00	09/15/00	09/25/00	09/25/00	
LAB QC:								
BLK	MB1	S	00LLC178	N/A	N/A	09/25/00	09/25/00	
BLK	MB1 BS	S	00LLC178	N/A	N/A	09/25/00	09/25/00	

21
10-17-00

Page 1 of 1

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

**RECRA
LabNet**

005

[illegible]

Special Instructions: Saf 800-054

DATE/REVISIONS:

- DATE/REVISIONS
1. Run Matrix QC
 2. Samples are on hold !!
 - 9-25-00 3. 001, 003, 004 off hold / #002 continue
 4. exceeds Recra dose rate, #002 will be
 5. shipped to STL-St. Louis per client

RECRA LabNet Use Only

1) Shipped ☒ or
Hand Delivered

Airbill # See below

2) Ambient or Chilled

3) Received in Good Condition (Y) or N

4) Labels Indicate Property Preserved

☒ Y or ☐ N

5) Received Within Holding Times

Y or N

1) Present on Outer Package Y or N

2) Unbroken on Outer
Package Y or N

3) Present on Sample ☒ or N

4) Unbroken on

Sample 1 of N
COC Record Present

Upon Sample Rec't
Y or N

Cooler Temp. 5.2 °C

Relinquished by	Received by	Date	Time
FrdEx	JBrodell	9-15-00	09:30

Relinquished by	Received by	Date	Time
COMPOSITE WASTE	ORIGINAL		

Discrepancies Between
Samples Labels and
COC Record? Y or **N**

000-1-92610

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				B00-054-053		Page 1 of 2	
Collector T Johansen		Company Contact J. Fancher		Telephone No. 373-9123		Project Coordinator TRENT, SJ		Price Code 8K Data Turnaround 15 day	
Project Designation 100-NR-1 TSD Sites R. A. Sampling - Soil		Sampling Location 116-N-3 Trench Floor		SAF No. B00-054		Air Quality <input type="checkbox"/>			
Ice Chest No. ERC 99-048 (10FI)		Field Logbook No. EL-1524		COA R1325N2600		Method of Shipment Federal Express			
Shipped To TMA/RECRA mo 9-11-00 POSSIBLE SAMPLE HAZARDS/REMARKS Potentially Radioactive		Offsite Property No. RSR 107125		Bill of Lading/Air Bill No. NA					
Special Handling and/or Storage None		Preservation		Cool 4C					
		Type of Container		G					
		No. of Container(s)		1					
		Volume		250mL					
SAMPLE ANALYSIS				Alcohols, Glycols, & Ketones - 8015M (Methanol)					
Sample No.	Matrix *	Sample Date	Sample Time						
B10496	SOIL	9-11-00	1021	X				B103 P3	m-12
B10497	SOIL	9-11-00	1026	X				B103 P4	m-11
B10498	SOIL	9-11-00	1415	X				B103 P5	m-10
B10499	SOIL	9-11-00	1425	X				B103 P6	m-9
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix *	
Relinquished By T. Johansen 9-11-00 1015		Received By R. Fancher 9-11-00 1015		Lab COA: R1325N-2F00 Samples stored in Ref. # 3C at the 3728 Shipping Facility on 9/14/00. Collector not available to relinquish samples on 9/14/00 for shipment.				S=Soil SE=Soil/Sediment SO=Solid S=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Time W1=Wipe L=Liquid V=Vegetation X=Other	
Relinquished By R. Fancher 9-14-00 0800		Received By R. Fancher 9-14-00 0800							
Relinquished By R. Fancher 9-14-00 0800		Received By FED EX							
Relinquished By FedEx 9-15-00 0930		Received By T. Keppel 9-15-00 0930							
Relinquished By		Received By							
Relinquished By		Received By							
LABORATORY SECTION	Received By	Title				Date/Time			
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By				Date/Time			

FedEx. USA Airbill

0215

+

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records

Date 9-14-00

FedEx Tracking Number

822771885190

Sender's Name

J.E. MAXWELL

Phone

F09 376-7493

Company

WASTE MANAGEMENT

TECHNICAL

SERVICES/U.S. DOE

Address

2355 STEVENS DR MS G1-14

(EMERGENCY CONTACT)
1-800-766-0771

City

RICHLAND

State

WA

ZIP 99352

2 Your Internal Billing Reference

812292800

PROJECTIVE MATERIAL, EXCEPT PACKAGE-
LIMITED QUANTITY OF MATERIAL
EMERGENCY RESPONSE GUIDE 4161 ATTACHED

3 To

Recipient's Name

ORLETTE JOHNSON

Phone 610 280-3012

Company

RECRA LAB NET

Address

208 WELSH POOL ROAD

No Contact Address in P.O. Boxes or P.O. Codes

City

LIONVILLE

State

PA

ZIP 19341-1333



0151692651

4a Express Package Service

☒ FedEx Priority Overnight☐ FedEx Standard Overnight☐ FedEx First Overnight☐ FedEx 2Day*☐ FedEx Express Saver*

4b Express Freight Service

☐ FedEx 1Day Freight*☐ FedEx 2Day Freight☐ FedEx 3Day Freight

5 Packaging

☐ FedEx Envelopes/Boxes*☐ FedEx Pak*☒ Other Pkg.

6 Special Handling

☐ SATURDAY Delivery☐ SUNDAY Delivery☐ HOLD Warehouse

Does this shipment require special handling?

☐ No☒ Yes☐ Dry Ice

7 Payment

☐ Sender's Account☐ Recipient☐ Third Party

Total Packages

44

Total Charges

8 Release Signature

By signing your signature on this bill, you agree to the following conditions:

1. I agree to the terms and conditions of the FedEx Service Order for this shipment.

2. I agree to the terms and conditions of the FedEx Service Order for this shipment.

3. I agree to the terms and conditions of the FedEx Service Order for this shipment.

4. I agree to the terms and conditions of the FedEx Service Order for this shipment.

5. I agree to the terms and conditions of the FedEx Service Order for this shipment.

6. I agree to the terms and conditions of the FedEx Service Order for this shipment.

7. I agree to the terms and conditions of the FedEx Service Order for this shipment.

8. I agree to the terms and conditions of the FedEx Service Order for this shipment.

9. I agree to the terms and conditions of the FedEx Service Order for this shipment.

10. I agree to the terms and conditions of the FedEx Service Order for this shipment.

11. I agree to the terms and conditions of the FedEx Service Order for this shipment.

12. I agree to the terms and conditions of the FedEx Service Order for this shipment.

13. I agree to the terms and conditions of the FedEx Service Order for this shipment.

14. I agree to the terms and conditions of the FedEx Service Order for this shipment.

15. I agree to the terms and conditions of the FedEx Service Order for this shipment.

16. I agree to the terms and conditions of the FedEx Service Order for this shipment.

17. I agree to the terms and conditions of the FedEx Service Order for this shipment.

18. I agree to the terms and conditions of the FedEx Service Order for this shipment.

19. I agree to the terms and conditions of the FedEx Service Order for this shipment.

20. I agree to the terms and conditions of the FedEx Service Order for this shipment.

21. I agree to the terms and conditions of the FedEx Service Order for this shipment.

22. I agree to the terms and conditions of the FedEx Service Order for this shipment.

23. I agree to the terms and conditions of the FedEx Service Order for this shipment.

24. I agree to the terms and conditions of the FedEx Service Order for this shipment.

25. I agree to the terms and conditions of the FedEx Service Order for this shipment.

26. I agree to the terms and conditions of the FedEx Service Order for this shipment.

27. I agree to the terms and conditions of the FedEx Service Order for this shipment.

28. I agree to the terms and conditions of the FedEx Service Order for this shipment.

29. I agree to the terms and conditions of the FedEx Service Order for this shipment.

30. I agree to the terms and conditions of the FedEx Service Order for this shipment.

31. I agree to the terms and conditions of the FedEx Service Order for this shipment.

32. I agree to the terms and conditions of the FedEx Service Order for this shipment.

33. I agree to the terms and conditions of the FedEx Service Order for this shipment.

34. I agree to the terms and conditions of the FedEx Service Order for this shipment.

35. I agree to the terms and conditions of the FedEx Service Order for this shipment.

36. I agree to the terms and conditions of the FedEx Service Order for this shipment.

37. I agree to the terms and conditions of the FedEx Service Order for this shipment.

38. I agree to the terms and conditions of the FedEx Service Order for this shipment.

39. I agree to the terms and conditions of the FedEx Service Order for this shipment.

40. I agree to the terms and conditions of the FedEx Service Order for this shipment.

41. I agree to the terms and conditions of the FedEx Service Order for this shipment.

42. I agree to the terms and conditions of the FedEx Service Order for this shipment.

43. I agree to the terms and conditions of the FedEx Service Order for this shipment.

44. I agree to the terms and conditions of the FedEx Service Order for this shipment.

45. I agree to the terms and conditions of the FedEx Service Order for this shipment.

46. I agree to the terms and conditions of the FedEx Service Order for this shipment.

47. I agree to the terms and conditions of the FedEx Service Order for this shipment.

48. I agree to the terms and conditions of the FedEx Service Order for this shipment.

49. I agree to the terms and conditions of the FedEx Service Order for this shipment.

50. I agree to the terms and conditions of the FedEx Service Order for this shipment.

51. I agree to the terms and conditions of the FedEx Service Order for this shipment.

52. I agree to the terms and conditions of the FedEx Service Order for this shipment.

53. I agree to the terms and conditions of the FedEx Service Order for this shipment.

54. I agree to the terms and conditions of the FedEx Service Order for this shipment.

55. I agree to the terms and conditions of the FedEx Service Order for this shipment.

56. I agree to the terms and conditions of the FedEx Service Order for this shipment.

57. I agree to the terms and conditions of the FedEx Service Order for this shipment.

58. I agree to the terms and conditions of the FedEx Service Order for this shipment.

59. I agree to the terms and conditions of the FedEx Service Order for this shipment.

60. I agree to the terms and conditions of the FedEx Service Order for this shipment.

61. I agree to the terms and conditions of the FedEx Service Order for this shipment.

62. I agree to the terms and conditions of the FedEx Service Order for this shipment.

63. I agree to the terms and conditions of the FedEx Service Order for this shipment.

64. I agree to the terms and conditions of the FedEx Service Order for this shipment.

65. I agree to the terms and conditions of the FedEx Service Order for this shipment.

66. I agree to the terms and conditions of the FedEx Service Order for this shipment.

67. I agree to the terms and conditions of the FedEx Service Order for this shipment.

68. I agree to the terms and conditions of the FedEx Service Order for this shipment.

69. I agree to the terms and conditions of the FedEx Service Order for this shipment.

70. I agree to the terms and conditions of the FedEx Service Order for this shipment.

71. I agree to the terms and conditions of the FedEx Service Order for this shipment.

72. I agree to the terms and conditions of the FedEx Service Order for this shipment.

73. I agree to the terms and conditions of the FedEx Service Order for this shipment.

74. I agree to the terms and conditions of the FedEx Service Order for this shipment.

75. I agree to the terms and conditions of the FedEx Service Order for this shipment.

76. I agree to the terms and conditions of the FedEx Service Order for this shipment.

77. I agree to the terms and conditions of the FedEx Service Order for this shipment.

78. I agree to the terms and conditions of the FedEx Service Order for this shipment.

79. I agree to the terms and conditions of the FedEx Service Order for this shipment.

80. I agree to the terms and conditions of the FedEx Service Order for this shipment.

81. I agree to the terms and conditions of the FedEx Service Order for this shipment.

82. I agree to the terms and conditions of the FedEx Service Order for this shipment.

83. I agree to the terms and conditions of the FedEx Service Order for this shipment.

84. I agree to the terms and conditions of the FedEx Service Order for this shipment.

85. I agree to the terms and conditions of the FedEx Service Order for this shipment.

86. I agree to the terms and conditions of the FedEx Service Order for this shipment.

87. I agree to the terms and conditions of the FedEx Service Order for this shipment.

88. I agree to the terms and conditions of the FedEx Service Order for this shipment.

89. I agree to the terms and conditions of the FedEx Service Order for this shipment.

90. I agree to the terms and conditions of the FedEx Service Order for this shipment.

91. I agree to the terms and conditions of the FedEx Service Order for this shipment.

92. I agree to the terms and conditions of the FedEx Service Order for this shipment.

93. I agree to the terms and conditions of the FedEx Service Order for this shipment.

94. I agree to the terms and conditions of the FedEx Service Order for this shipment.

95. I agree to the terms and conditions of the FedEx Service Order for this shipment.

96. I agree to the terms and conditions of the FedEx Service Order for this shipment.

97. I agree to the terms and conditions of the FedEx Service Order for this shipment.

98. I agree to the terms and conditions of the FedEx Service Order for this shipment.

99. I agree to the terms and conditions of the FedEx Service Order for this shipment.

100. I agree to the terms and conditions of the FedEx Service Order for this shipment.

402